

BLEED VALVE SYSTEM

ABSTRACT OF THE DISCLOSURE

A bleed valve for use in a gas turbine engine is provided; the bleed valve may
5 be used to relieve air pressure from a compressor stage of the engine. At normal
pressure and when the engine is off, the bleed valve is in the open position. However
once the engine starts, air pressure provided by the compressor closes the bleed valve.
During engine operation, the bleed valve is opened to relieve air pressure by
providing pressurized fluid, such as compressor air, to a valve chamber. The bleed
10 valve is designed so that moveable parts of the valve, including contact seals and a
sliding shaft, are protected by the valve structure from debris and contaminants
carried in the engine's air stream.